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	A01N37/20	A01N43/40 A01N53/00	A01N43/653 A01N57/12	A01N47 A01N59		A01P3/00 A01N43/30
		Classification (IPC) or to bo	th national classification an	d IPC		
	SEARCHED ocumentation searched	1 (classification system folk	owed by classification symb	pols)		·
Documenta	tion searched other tha	an minimum documentation	to the extent that such doc	uments are inclu	ided in the t	Felds searched
	lata base consulted du ternal, WPI		h (name of data base and,	where practical,	search tern	ns used)
C. DOCUM	ENTS CONSIDERED	TO BE RELEVANT			<del></del>	
Category*	1		propriate, of the relevant pa	ssages		Relevant to claim No.
Х	US 6 797 301 B1 (DUVERT PATRICE ET AL) 28 September 2004 (2004-09-28) column 2, lines 17-62 column 3, lines 12-23 column 3, line 58 - column 4, line 15					
X	EP 0 336 489 A (JANSSEN PHARMACEUTICA N.V) 11 October 1989 (1989-10-11) cited in the application page 2, lines 10-43 page 3, lines 24-51					
X	WO 99/12422 A (JANSSEN PHARMACEUTICA N.V; BOSSELAERS, JAN, PIETER, HENDRIK; GARNIER,) 18 March 1999 (1999-03-18) cited in the application page 1, lines 5-8 page 3, line 32 - page 4, line 22					
			 -/			
		d in the continuation of Box	кс. Х	See patent fam	ly annex.	
*Special categories of cited documents:  *A' document defining the general state of the art which is not considered to be of particular relevance  *B' earlier document but published on or after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention determined in the priority claim(s) or which is cited to establish the publication date of another cannot be considered no involve an invention cannot be considered to involve and invention cannot be considered to involve an invention c						
Date of the actual completion of the international search  Date of mailing of the international search report						
	2 January 20			22/01/2007		
rame and m	NL – 2280 HV Riis	iffice, P.B. 5818 Patentlaan wijk 2040, Tx. 31 651 epo nl,		Klaver,	Jos	

Continue	tion). DOCUMENTS CONSIDERED TO BE RELEVANT	PCT/EP2006/066859
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A	WO 02/054869 A (BASF AKTIENGESELLSCHAFT; MUELLER, BERND; PTOCK, ARNE; AMMERMANN, EBERH) 18 July 2002 (2002-07-18) page 1, lines 9-45 page 4, lines 30-33 page 5, lines 29,30	1-18
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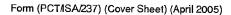
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#### PATENT COOPERATION TREATY

INTERNATIONAL SEARCHING AUTHORITY

To:  See form PCT/ISA/220					PCT  WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY				
	1/4/4				Date of maili	-			
	or agent's file				FOR FURTHER ACTION See paragraph 2 below				
	al application		Into months of	£0					
	2006/06685		28.09.200	_	(day/month/year) Priority date (day/month/year) 29.09.2005				
		sification (IPC) or				LADDO ACANED DO ACANEDA O ACANED			
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Applicant									
JANSSE	N PHARM	ACEUTICA N.\	/. 						
1. This	s opinion co	ontains indication	ons relating	to the folio	owing items:				
_	Box No. I		_	10 11/0 10110	,g itoo.				
_	Box No. I	Basis of the op	oinion						
_		Priority			gard to novelty, inventive step and industrial applicability				
				n with rega	rd to novelty,	inventive step and industrial applicability			
	<ul> <li>☑ Box No. IV Lack of unity of inv</li> <li>☑ Box No. V Reasoned statement</li> </ul>		ement under	ment under Rule 43 <i>bis.</i> 1(a)(i) with regard to novelty, inventive step or industrial					
	Box No. VI	Certain docum	ations and explanations supporting such statement						
	Box No. VII		ents cited : in the international application						
	_		ations on the international application						
	THER ACTI				ar approactor				
writte the a Inter	en opinion of applicant cho	f the Internation; ooses an Authori eau under Rule	al Preliminary itv other than	Examining this one to	Authority ("IF be the IPEA a	nion will usually be considered to be a PEA") except that this does not apply when and the chosen IPEA has notifed the International Searching Authority	'e		
If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.							iths		
For f	urther optior	ns, see Form PC	T/ISA/220.						
3. For f	urther details	s, see notes to F	orm PCT/ISA	V220.					
Name and r	nailing addres	s of the ISA:		Date of cor		Authorized Officer	s Patentene		
all		Patent Office		see form		J. L. Carrier and	M. Friday		
<u> </u>	D-80298 M Tel. +49 89	lunich 9 2399 - 0 Tx: 5236	356 epmu d	PCT/ISA/21	0	Klaver, Jos	الري		
Fax: +49 89 2399 - 4465						Telephone No. +49 89 2399-8601	Thice . Diffice &		



## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

		Box	No. I Basis of the opinion					
	1.	With	regard to the language, this opinion has been established on the basis of:					
		⊠ t	he international application in the language in which it was filed					
		□ a	translation of the international application into , which is the language of a translation furnished for the ourposes of international search (Rules 12.3(a) and 23.1 (b)).					
	2.	. With regard to any <b>nucleotide and/or amino acid sequence</b> disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:						
		a. typ	e of material:					
_			a sequence listing					
)			table(s) related to the sequence listing					
		b. for	mat of material:					
			on paper					
			in electronic form					
		c. tim	e of filing/furnishing:					
			contained in the international application as filed.					
			filed together with the international application in electronic form.					
			furnished subsequently to this Authority for the purposes of search.					
)	3.	h c	n addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto as been filed or furnished, the required statements that the information in the subsequent or additional opies is identical to that in the application as filed or does not go beyond the application as filed, as poropriate, were furnished.					
	4.	Additio	onal comments:					

Вс	x No. I\	/ Lack of unity of	inventio	n						
1. 🗆	In response to the invitation (Form PCT/ISA/206) to pay additional fees, the applicant has, within the applicable time limit:									
	☐ paid additional fees									
	paid additional fees under protest and, where applicable, the protest fee									
		paid additional fees	under p	rotest but t	ne applicable protest fee was not paid					
		not paid additional f	fees							
2. 🛛	This A	uthority found that the	e require nal fees.	ement of un	ity of invention is not complied with and chose not to invite					
3. Thi	is Autho	rity considers that the	e require	ment of uni	ty of invention in accordance with Rule 13.1, 13.2 and 13.3 is					
	complie	d with								
_	•	plied with for the follo	owing ro	seone:						
		eparate sheet	Jwing rea	450115.						
1 00		•		h. 19 - 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,						
			een esta	olisned in re	espect of the following parts of the international application:					
IXI	all parts	•								
	the part	s relating to claims N	os.							
	x No. V Iustrial	Reasoned statem applicability; citatio	nent und	ler Rule 43 explanation	bis.1(a)(i) with regard to novelty, inventive step or a supporting such statement					
1. Sta	tement									
Nov	veity (N)		Yes: No:	Claims Claims	1 - 18					
inve	entive st	rep (IS)	Yes: No:	Claims Claims	4,, 7 - 11,13 1 - 3, 5, 6, 12, 14 - 18					
ind	ustrial a	pplicability (IA)	Yes: No:	Claims Claims	1 - 18					
2. Cita	ations ar	nd explanations								

see separate sheet

### WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/EP2006/066859

Box No. VII Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

see separate sheet

#### Re Item IV

#### Lack of unity of invention

This Authority considers that there are 8 inventions covered by the claims indicated as follows:

- I: Claims 1 3 (part), 4 and 14 18 (part) directed to compositions comprising (I) imazalil and boscalid (II-a), use and preparation of such compositions and products containing them.
- II: Claims 1 3 (part), 5, 7, 12 and 14 18 (part) directed to compositions comprising (I) imazalil and cyproconazole (II-b), triflumizole (II-d) or tetraconazole (II-i), use and preparation of such compositions and products containing them.
- III: Claims 1 3 (part), 6 and 14 18 (part) directed to compositions comprising (I) imazalil and pyraclostrobin (II-c), use and preparation of such compositions and products containing them.
- IV: Claims 1 3 (part), 8 and 14 18 (part) directed to compositions comprising (I) imazalil and acibenzolar-S-methyl (II-e), use and preparation of such compositions and products containing them.
- V: Claims 1 3 (part), 9 and 14 18 (part) directed to compositions comprising (I) imazalil and carpropamid (II-f), use and preparation of such compositions and products containing them.
- VI: Claims 1 3 (part), 10 and 14 18 (part) directed to compositions comprising (I) imazalil and fosetyl-Al (II-g), use and preparation of such compositions and products containing them.
- VII: Claims 1 3 (part), 11 and 14 18 (part) directed to compositions comprising (I) imazalil and spiroxamine (II-h), use and preparation of such compositions and products containing them.
- VIII: Claims 1 3 (part), 13 and 14 18 (part) directed to compositions comprising (I) imazalil and zoxamide (II-j), use and preparation of such compositions and products containing them.

The reasons for which the inventions are not so linked as to form a single general inventive concept, as required by Rule 13.1 PCT, are as follows:

Synergistic combinations of imazalil (I) and various other fungicides are known from the

prior art as can be seen from the citations in the International Search Report (ISR; see also item V below).

The special technical effect linking together the various inventions numbered I - VIII, the synergistic effect between imazalil and the second fungicide, hence is not novel. Since the fungicidal agents (II-a) - (II-j) are very different in their chemical structure and/or mode of action, the groups of claims are not linked by common or corresponding special technical features and define 8 different inventions not linked by a single general inventive concept. The application, hence does not meet the requirements of unity of invention as defined in Rules 13.1 and 13.2 PCT.

#### Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- 1). Compositions comprising imazalil and a second fungicide selected from (II-a) (II-j) have not been disclosed in the documents cited in the ISR. The subject-matter of claims 1 18 hence is novel (Art. 33 (2) PCT).
- 2). a). US 6,797,301 B1 (= D1) discloses synergistic compositions for the treatment of fruit comprising an inhibitor of mitochondrial respiration in combination with a sterol biosynthesis inhibitor, in particular imazalil.

The claimed combination of imazalil with pyraclostrobin is an obvious further application of this technical teaching since pyraclostrobin is a known inhibitor of mitochondrial respiration. The concentration ranges of the fungicides as disclosed in D1 also are well within the scope of present claim 14.

The subject-matter of present claims 1 - 3, 6 and 14 - 18 -insofar as relating to imazalil/pyraclostrobin combinations- hence is not based on an inventive step (Art. 33 (3) PCT).

b). EP 336 489 A2 (= D2) and WO 99/12422 A1 (= D3) disclose synergistic combinations of imazalil and the triazole fungicides propiconazole and epoxiconazole. It is well-known in the art, that triazole fungicides all function through the inhibition of the sterol biosynthesis. The skilled artisan, knowing the contents of D2 and D3 thus would not hesitate to combine imazalil with closely analogous other triazole fungicides such as cyproconazole (II-b) or tetraconazole (II-i).

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/EP2006/066859

The subject-matter of claims 1 - 3, 5, 12 and 14 - 18, insofar as relating to these combinations, hence is not considered to be based on an inventive step (Art. 33 (3) PCT) either.

- c). Combinations of imazalil (I) and boscalid (II-a), triflumizole (II-d), acibenzolar-S-methyl (II-e), carpropamid (II-f), spiroxamine (II-h) or zoxamid (II-j) have not been disclosed or suggested in the available prior art. The subject-matter of claims 1 4, 7 11 and 13 18 insofar as relating to these combinations hence is novel and inventive (Art. 33 (2) and (3) PCT).
- d). The industrial applicability of claims 1 18 is evident (Art. 33 (4) PCT).

#### Re Item VII

#### Certain defects in the international application

Contrary to the requirements of Rule 5.1(a)(ii) PCT, the relevant background art disclosed in the document D1 is not mentioned in the description, nor is this document identified therein.